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Rubber compsn. based on unsatd. elastomer, e.g. SBR - contg. synthetic poly phenyl methane plasticiser having defined structure, forming non toxic combustion prods

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Patent Family

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EP 617077	A1	19940928	EP 94400563	A	19940315	199437	B
NO 9401029	A	19940926	NO 941029	A	19940322	199441	
CA 2119587	A	19940924	CA 2119587	A	19940322	199444	
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TW 284779	A	19960901	TW 94102439	A	19940321	199703	

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Abstract:

EP 617077 A

A compsn. comprises an unsatd. elastomer (I) and a polyphenylmethane type plasticiser in sufficient amt. to reduce the glass transition temp. of (I) and from a rubber. The novelty is that the plasticiser is of formula $R1-C6H4-CHR4-C6H4-R2$ (II), $R1, R2, R4 =$ one or more of H, Me, $R3-C6H4-CH2$ and $R3-C6H4-$; $R3 =$ one or more of H, Me- $C6H4-CH2-$, Me and $PhCH2$.

ADVANTAGE - Unlike prior art mineral oil mixt. plasticisers, synthetic polyphenylmethanes (II) have known structure form known degradation product and do not form toxic products on combustion of the rubbers.

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EP 617077 B

Composition comprising an unsaturated elastomer and a plasticizer of the polyphenylmethane glass in a sufficient quantity to lower the glass transition temperature of the elastomer to make it a rubber, characterized in that the polyphenylmethanes are chosen from the products of formula (I): in which $R1, R2$ and $R4$ denote one or more of the following radicals (i) or (ii); $R3$ also denoting one or more of H, Me, methylbenzyl or benzyl.

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